RCN Policy on Applications for No-Cost Service Additions

No Cost Additions of Applications

Policy: The TAG and ITS committees will approve no cost additions of applications that respect the funding requirements, technical limitations, regional nature and equitable use of the RCN.

Purpose: This policy allows the timely addition of applications to the RCN while providing for fair accommodation to participating agencies.

Applicability: This policy applies only to no cost application additions by existing participants in the RCN.

Evaluation: The TAG and ITS committees will review all requests that seek to add additional applications based on the following criteria.

Area	Description
Compatibility with funding requirements	Transportation uses must be given priority because construction of the facilities relies on federal transportation funding. Additional uses are permitted as long as they do not affect the transportation use. Projects must demonstrate that they are either compatible with the transportation use or that they will not impact that use in order to be considered.
Bandwidth Usage	The proposed use should be shown to not exceed the available bandwidth of the network, including burst traffic.
Regional Use	Regional uses of the network for interagency communication should be given preference over individual use.
Agency Distribution	The project should reflect a reasonable distribution of bandwidth among agencies.
Cost	Agencies should demonstrate that there will be no additional costs borne by the RCN for the implementation of the application. The agency will have the option of doing this by assuming the costs associated with implementation.

Requests for applications must include the understanding that non-transportation applications may have to be removed from the network in the future or may have to upgrade equipment to maintain the ability to execute transportation related applications.

A request must be approved by both committees before the additional application is added to the RCN.

Application Procedure: Requesting agencies will submit the attached form to MAG with supporting information as necessary. All applications will be reviewed by the RCN Working Group and a recommendation generated for TAG and ITS committees for consideration.

RCN Application for No-Cost Service Additions

Agency requesting service:	Maricopa Region 911

Description of the service being requested:

IP transport between RCN connected 911 centers.

Description of the transportation use of this service:

Emergency services, 911 call and associated data delivery.

Estimated bandwidth required:

At or near equal to peak bandwidth requirement.
Intelligent link aggregation hardware in use constantly measures all links (from all providers).
The aggressive monitoring makes possible sub-second link problem detection. IP traffic from problem links is moved to other links in less than one second.

Estimated peak bandwidth required:

Remote location: 5 Mbps
Hub location: 100 Mbps

Method used to determine bandwidth (Please include relevant supporting documentation):

Bandwidth calculations are based on adding the bandwidth reservations for expected call volumes (100 kbps per call) to the bandwidth required for 911 location information and ancillary support applications. Future bandwidth requirements are expected to grow for larger volume sites. This is estimated to be approximately 1-5 Mbps additional for larger sites. Phoenix Police (both of their sites) is estimated to have a larger future bandwidth need based on their much larger call volume.

Description of the regional benefit associated with this service:

The RCN represents an additional diverse source of connectivity for 911 call centers. We currently use legacy carrier services from CenturyLink and Cox Communications. The ability to add in the use of the RCN would add to the resiliency and capacity (bandwidth) capability of the 911 system. The most significant aspect of adding the RCN connections is that the connectivity is diverse from the facilities available from commercial carriers.

List of agencies that will benefit from this use now and in the future:

Apache Junction	Police
State of Arizona	ASU Police
Avondale	Police
Buckeye	Police
Chandler	Police
State of Arizona	DPS

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Fort McDowell	Tribal Police
Gilbert	Police
Glendale	Police
Goodyear	Police
Luke AFB	Fire
Maricopa County	Sheriff
Mesa*	Police and Fire
Paradise Valley	Police
Peoria	Police
Phoenix	Police (multi-site)
Phoenix*	Fire (multi-site)
Rural Metro	Fire
Salt River	Tribal Police
Scottsdale	Police
Surprise	Police
Tempe	Police
Tolleson	Police
Wickenburg	Police

*Hub location

Please initial the following statements to affirm your understanding of the following RCN restrictions:

_____ If this is not a transportation use, I understand that my agency may have to mitigate or terminate our use of the service if it impacts the core transportation use.

_____ I acknowledge that the RCN does not have a guaranteed service level at this time and that the proposed use is consistent with this level of availability.

_____ I agree that our agency will bear any costs associated with the implementation of this service and that if it results in additional network management costs, those costs will be borne by our agency.

Applicant's Signature: _____

Suggested -- MAG Management Committee Member

Name   Michael Benjamin   Title 911 Technical Manager

Agency City of Phoenix – Maricopa Region 911

Date   09/29/2011

Return this application to: Audrey Skidmore, MAG - askidmore@mag.maricopa.gov